Activity #3—Student Response Sheet

Title: Transmission of Longitudinal (sound) Waves



1.	I predict that the phase of matter will conduct sound the poorest. The
	phase of matter will be second best and the phase of
	matter will conduct sound the best. (Choose answers from solid, liquid or gas.)
2.	2a. I (was, was not) able to hear the ticking of the watch from one meter away.
2b.	When the watch was placed on one end of the metal rod, the sound of its ticking was
3a.	The sound made by the suspended coat hanger was
3b.	The sound of the vibrating coat hanger was carried to my ears by the phase of matter.
3c.	The sound of the coat hanger when my fingers were inserted into the loops of the string and then allowed to touch my ears was
	The phase of matter was carrying this sound to my ears. Examples of sounds that were carried to my ears by liquids or solids are
pha	My REVISED prediction for the ranking of the phases of matter to conduct sound energy is the phase is poorest, is second and the ase is the best. I predict that the volume of the sound source inside of the bell jar will
	crease, decrease, remain the same) when the air within is removed.
6a. allo	I predict that the volume of the sound source will as the air is owed to re-enter the bell jar.
6b.	Communication in the vacuum of outer space must be accomplished by